

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: EPHESUS

Report Number: G2-1810-991-38

Luminaire Tested: **G8-N-PC-350-4500**

Test Date: 11/02/18

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1810-991-38  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 11/02/18  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: G8-N-PC-350-4500  
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 3.5, 4500K CCT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

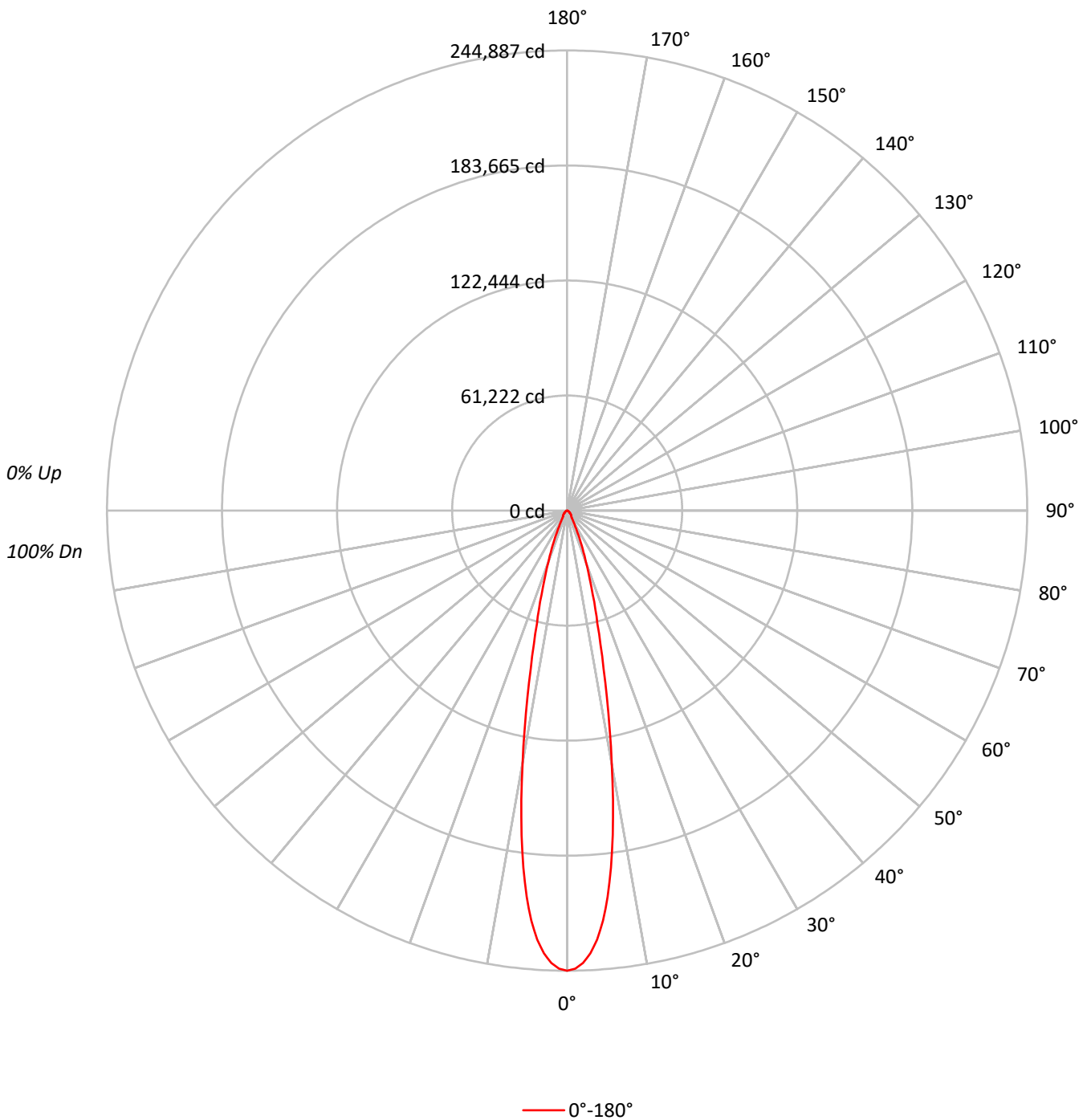
Lumens per Lamp: N/A  
Luminaire Lumens: 49830.1 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Spacing Criteria (0/90/45): 0.37 / 0.37 / 0.37  
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 408.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	112	110	108	112	110	108	106	106	105	103		102	101	100		99	98	97	96
2	110	106	103	100	108	104	101	99	101	99	97		98	96	95		96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	92		95	92	90		93	91	89	87
4	102	96	92	89	101	95	91	88	93	90	87		91	89	86		90	87	85	84
5	99	92	88	85	98	92	87	84	90	86	83		88	85	83		87	84	82	81
6	96	89	84	81	95	88	84	81	87	83	80		86	82	80		84	82	79	78
7	93	86	81	78	92	85	81	78	84	80	77		83	80	77		82	79	77	76
8	90	83	79	75	89	83	78	75	82	78	75		81	77	75		80	77	74	73
9	88	80	76	73	87	80	76	73	79	75	73		78	75	73		78	75	72	71
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76	73	70	69

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	2091326
5°	1878065
10°	1186090
15°	550799
20°	267107
25°	124240
30°	59610
35°	41066
40°	36544
45°	31160
50°	24459
55°	19713
60°	16004
65°	12367
70°	9788
75°	8051
80°	6688
85°	4997



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18202.3	36.5
10°-20°	18298.3	36.7
20°-30°	6591.0	13.2
30°-40°	2607.0	5.2
40°-50°	1977.2	4.0
50°-60°	1202.2	2.4
60°-70°	625.0	1.3
70°-80°	265.1	0.5
80°-90°	62.0	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	43091.6	86.5
0°-40°	45698.6	91.7
0°-60°	48878.0	98.1
0°-90°	49830.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	49830.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	244887	
5°	219078	###
15°	62299	18298
25°	13185	6591
35°	3939	2607
45°	2580	1977
55°	1324	1202
65°	612	625
75°	244	265
85°	51	62
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	244887
1°	243827
2°	240892
3°	235953
4°	228864
5°	219078
6°	206594
7°	191552
8°	174323
9°	155765
10°	136777
11°	118640
12°	101329
13°	86198
14°	73267
15°	62299
17.5°	42826
20°	29391
22.5°	20049
25°	13185
27.5°	8711
30°	6045
32.5°	4632
35°	3939
37.5°	3564
40°	3278
42.5°	2967
45°	2580
47.5°	2187
50°	1841
52.5°	1558
55°	1324
57.5°	1123
60°	937
62.5°	765
65°	612
67.5°	491
70°	392
72.5°	311
75°	244
77.5°	187
80°	136
82.5°	91
85°	51
87.5°	18



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0}$

(END OF REPORT)